Tuesday, April 19, 2011 4:03:14 PM

Page 1

Itém ID:

D3391-023

Accept



Setup Start



Revision ID:

Item Name:

Mid Tube Assembly

**Start Date:** 

Required Date: 5/13/2011

4/19/2011

Start Qty: 1.00 Req'd Oty: 1.00



**Cust Item ID:** 

**Customer:** 

Reference: 4. Approvals:

Process Plan: \_\_\_\_\_\_

Date://-04-19 Tooling:

Date:

Date:

Run

Start

Stop

Stop



Sequence ID/

QC:

Date:

SPC (Y/N):

Set Up/

**Run Hours** 

Tool ID

Tool # Plan

Code

Accept Qty

Reject Qty

Reject Number

Insp. Stamp

Draw Nbr

Work Center ID

**Revision Nbr** 

Operation

Description

D3391

Skidtubes.

Skidtubes

Rev H

Skidtubes

0.00-

0.00

1-Cut tube to finish length as per Dwg D3391

2-Identify as D3391-023

3-Drill pilot holes using DT8796 (Do not drill "B" holes) and drill only 1 fwd saddle hole on one side only as per Dwg D3391

4-Open saddles and GHW holes to Ø0.375" exept for fwd saddle hole of detail

5-Remove .030" from Fwd indexing Ridge as per Dwg D3391

6-Remove indexing ridge on Fwd & Aft end of skidtube as per Dwg D3391

7-Deburr

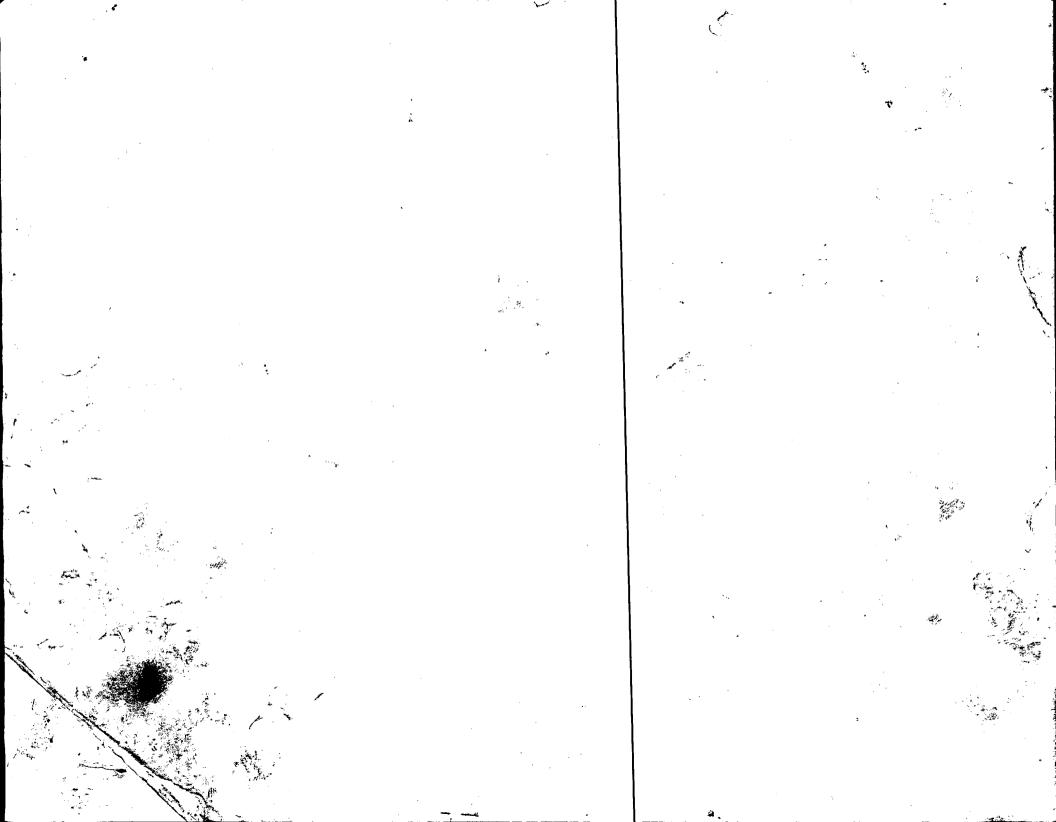
Memo

8-Drill #30 pilot holes using wearplate Jig DT8217 Identify Ø0.250" holes with

9-Open wearplate holes of D3391-023 assembly detail section G-G to Ø0.250" (14 holes) as per Dwg D3391 and 2 holes in section Detail "J", do not open wearplate holes of section "J"

10-Open wearplate holes of D3391-023 assembly detail section H-H to Ø0.297" (20 holes) as per Dwg D3391





### Work Order ID 68680

•Tuesday, April 19, 2011 4:03:14 PM

Item ID: D3391-023

Revision ID: Item Name:

Mid Tube Assembly

Start Date:

4/19/2011

Req'd/Qty: 1.00



Accept



Run

Qty

Setup Start

Stop

Start

Stop



**Cust Item ID:** 

**Customer:** 

Reference:

Approvals:	Pro

**Required Date: 5/13/2011** 

QC:

cess Plan:

Start Oty: 1.00

Date:

Date:\_\_\_\_\_ Tooling:

SPC (Y/N):

**Tool ID** 

Tool # Plan

Date:

11-4-26

Code

Accept

Reject Number

Insp.

Sequence ID/ **Work Center ID**  Operation Description Set Up/ **Run Hours** 

Date:

Qty

Reject

Stamp

11-Open .375" holes to .438" \*\*\*do not open fwd saddle holes\*\*\*

12-Locate D3391-021 in D3391-023 at 9.00" (see view z-z)

13- Transfer drill one fwd saddle hole only to .188" dia, transfer drill all remaining fwd saddle holes using DT 8149 locating from previusly drill .188 dia hole, using t-pins and clicos to ensure perfect allingment, open up previusly tranfer drilled pilot holes in D3391-023/-021 to 0.438" dia in D3391-021

14- Transfer drill 2 wearplate holes into D3391-021 using DT8217, locating from two previously drilled holes, drill remaining wearplate holes into D3391-021.

15- Locating from two fwd wearplate holes drilol remaining 6 wearplte holes in D3391-021 using DT8937

16- Open 2 fwd wearplate holes in D3391-023 to .250" dia...

17- counterbore two aft wearplate holes in D3391-021 as per dwg

18- Open 12 wearplate holes in D3391-021 to 0.297" dia.

19-Deburr and blow out all chips from inside tube

11-5-16

Dart Aeros	pace	Ltd
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W/O:					V	VORK ORDER CHANG	ES				
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DATE	STEP		ption of NC ection A		itial e Eng	Corrective Action Section Action Description Chief Eng	on B Sigi	1&	erification C		Approval QC Inspector
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### Work Order ID 68680

«Tuesday, April 19, 2011 4:03:14 PM



Page 3

Item ID:

D3391-023

Accept

Setup Start

Stop



**Revision ID:** 

Item Name:

Mid Tube Assembly

**Start Date:** 

Required Date: 5/13/2011

4/19/2011

QC:

Start Qty: 1.00

Req'd Qty: 1.00



**Cust Item ID:** 

**Customer:** 

Reference:

Approvals:

Process Plan:

Date:

Date:

Tooling:

SPC (Y/N):

Date:

Date:

Start

Stop

Sequence ID/ Work Center ID

110

QC

Quality Control

Operation **Description** 

QC5- Inspect part completeness to step on W/O

Set Up/ Run Hours

Tool ID

Unlosh 74"

Tool # Plan Code

Accept Qty

Reject Qty

Run

Reject Insp. Number

Stamp

Chemical Conversion Coat per QSI005 4.1

0.00

Memo

120

HandFinish

Hand Finishing

Memo

0.00

130

QC

Quality Control

QC3- Inspect Part Finish

0.00

Memo

0.00

Dart	Aeros	pace	Ltd
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W/O:			WORK ORDER CHANGES			. *	· ;	
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Page 4

\* Tuesday, April 19, 2011 4:03:14 PM Item ID: D3391-023

Required Date: 5/13/2011

**Revision ID: Item Name:** 

Mid Tube Assembly

**Start Date:** 

4/19/2011

Start Qty: 1.00 Req'd Qty: 1.00



Accept



Setup Start



Stop

**Cust Item ID: Customer:** 

Tool ID

1710

Reference:

Approvals:

Process Plan:

Operation

Skidtubes

**Description** 

Date:

Date:

Tooling:

0.00

0.00

SPC (Y/N):

Set Up/

**Run Hours** 

Date:

Date:

Tool # Plan

Run Start

Reject

Otv

Accept

Qty



Stop

Reject

Number

Insp.

Stamp

Sequence ID/ **Work Center ID** 

140

Skidtubes

Skidtubes

Memo 1-Open float bag holes as per dwg

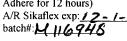
2-C'sink float bag holes as per dwg

3- Prepare tube for welding

4-Bond web in place as per Dwg D3391 & QSI 015.

Adhere for 12 hours)

A/R Sikaflex exp: 12-1-15



150

QC

Quality Control

QC5- Inspect part completeness to step on W/O

0.00

0.00

11-5-17

Code

160

Skidtubes Skidtubes

Skidtubes

Memo

Memo

0.00

0.00

1-Weld crossbolt spacer as per dwg D3391 & QSI 004

2-grind weld flush

1 & DEUJOSP8

Dart Aerospace
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W/O:				٧	ORK ORDER CHANGE	ES					,1
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NCR:		W	ORK	OR	DER NON-CONFORMA	NCE (I	VCR)				
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Page 5

Insp.

Stamp

· Tuesday, April 19, 2011 4:03:14 PM Item ID: D3391-023 Accept Setup Start **Revision ID:** Stop Item Name: Mid Tube Assembly **Start Date:** 4/19/2011 Start Qty: 1.00 **Cust Item ID:** Required Date: 5/13/2011 Req'd Oty: 1.00 **Customer:** Reference: Start Run Process Plan: Approvals: Date: **Tooling:** Date:\_\_ Stop QC: Date: SPC (Y/N): Date: Sequence ID/ Operation Set Up/ Tool ID Reject Tool # Plan Reject Accept Work Center ID Description **Run Hours** Qty Qty Code Number 170 QC10- Inspect visual per QSI004- ground welds 0.00 0 mod 19 QC Memo Quality Control 180 QC5- Inspect part completeness to step on W/O 0.00 QC 0.00 Memo Quality Control

185

HandFinish

Pressure Wash per QSI005 4.3

0.00

Memo

0.00

Hand Finishing

AND REALODINE AS PER PAR09-043

1 d Al 11/05/18

Dart Aerospace Ltd
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W/O:				WORK ORDER CHAN	IGES			,
DATE	STEP	PRO	OCEDURE	CHANGE	Ву	Date Qty	Approval Chief Eng / Prod Mgr	Approval, QC Inspector
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### Work Order ID 68680

. Tuesday, April 19, 2011 4:03:14 PM



Page 6

Item ID:

D3391-023

Accept

Setup Start

Stop



**Revision ID:** 

Item Name:

Mid Tube Assembly

**Start Date:** 

Required Date: 5/13/2011

4/19/2011

Start Qty: 1.00

**Req'd Qty:** 1.00



**Cust Item ID:** 

**Customer:** 

Reference:

Approvals:

QC:

Date:

Date: \_\_\_\_\_

Tooling:

SPC (Y/N):

Date:

Date:

Start

Run



Stop

Sequence ID/ **Work Center ID** 

190

Powdercoat

Powder Coating

Operation Description

White Gloss(Ref:4.3.5.1) per QSI005 4.3-Alum

M16964

FINISH TIME:

Set Up/ **Run Hours** 

0.00

0.00

Tool ID

Code 1 bl w5-19

Tool # Plan

Accept Qty

Reject Qty

Reject Number

Insp. Stamp

200

QC

Quality Control

QC3- Inspect Part Finish

0.00

Memo

0.00

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W/O:			١ ،	WORK ORDER CHANGES											
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NOTE: Date & initial all entries

Tuesday, April 1											•	Page 7
Item ID: Revision ID:	D3391-023	3 €		Accept					Setup	Start		
	Mid Tube Ass	embly								Stop		
Start Date:	4/19/2011	Start Qty: 1.00			Cust Item 1	ID.						=11= 11= 11=1 1==1
Required Date:		Req'd Qty: 1.00		181	Customer:							
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Sequence ID/ Work Center II	)	Operation Description		Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accep Qty	t Re Qt	ject y	Reject Number	Insp. Stamp
210		Skidtubes	s	0.00						,	A . A	, ,
Skidtubes				0.00						φ_	JH_	1105/20
Skidtubes		Memo  1- insert D3	3391-021 into D3391-23							(	والمعالي	
		insert T-	pins into first and third:	fwd saddle holes								
		2- ON FIRS per DSI 930	ST SIDE ONLY drill ou 54	t 2nd and forth fwd saddles	s holes to 0.500" as							
		remove 7		15 from first and third cross	sbolt hole using T-							
·		ON 2ND DT9415	SIDE ONLY ream out	2nd and forth saddle hole t	to 0.499". Remove							
		6- deburr, r	e-alodine and blow out	chips								
		7- press fit	D3591-1 spacers using	DT9416 starting from 0.50	0" side							
220		QC5- Inspect part comp	leteness to step on W/O	0.00	\ ,			G				

Memo

0.00

g, mosts t

Quality Control

Dart Aerospace	Lta
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	Re	solution:	Disposit	ion:	QA: N	I/C Clo	sed:	Date: _						
NCR:			WORK ORDER NON-CONFORMANCE (NCR)											
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· Tuesday, April 19, 2011 4:03:14 PM

Item ID:

D3391-023

**Revision ID:** 

Item Name: Mid Tube Assembly

**Start Date:** 

4/19/2011

Start Qty: 1.00

**Required Date: 5/13/2011** 



Accept



Setup Start



Stop

Req'd Qty: 1.00



**Cust Item ID:** 

**Customer:** 

Reference:

Approvals:

QC:

Process Plan: \_\_\_\_\_ Date: \_\_\_\_

Date:

Tooling:

SPC (Y/N):

Date:

Run

Start



Stop

Sequence ID/ **Work Center ID** 

HandFinish Hand Finishing

Operation Description

HandFinishing

Install Inserts as per Dwg

Set Up/ Run Hours

0.00

0.00

**Tool ID** 

Date:

Tool # Plan Code

Accept **Oty** 

Reject **Qty** 

Reject Insp. Number Stamp

240

QC

**Quality Control** 

QC5- Inspect part completeness to step on W/O

O mostry

250

Packaging Packaging

Identify as per dwg & Stock Location:  $\omega/o$ 

Memo

0.00 4/2 - 742 - 043/ 1364980

0.00

Memo

Dart Aerospace	Ltd
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W/O:	W/O:				VORK ORDER CHANGES					
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### -Work Order ID 68680 . Tuesday, April 19, 2011 4:03:14 PM

Page 9

Item ID:

D3391-023

Accept

Setup Start



**Revision ID:** 

Item Name:

Mid Tube Assembly

Stop

**Start Date:** 

4/19/2011

Start Qty: 1.00

Req'd Qty: 1.00

**Cust Item ID:** 

**Customer:** 

Reference:

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Process Plan:

Date:

Tooling:

Date:

Start



Required Date: 5/13/2011

QC:

Date:

SPC (Y/N):

Date:

Stop

Run



Sequence ID/ **Work Center ID** 

Operation Description Set Up/ Run Hours Tool ID

Tool # Plan Code

Accept Reject Qty

Reject

Insp. Number Stamp

260

Memo

QC21- Final Inspection - Work Order Release

0.00

0.00

Qty

Quality Control

MF 25

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W/O:		WORK ORDER CH
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W/O:		•	WORK ORDER CHANGES					
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# Picklist Print

Tuesday, April 19, 2011 4:03:11 PM

Work Order ID: 68680

Parent Item:

D3391-023

Parent Item Name:

Mid Tube Assembly



**Start Date:** 4/19/2011

Required Date: 5/13/2011

Page 1

Start Qty: 1.00

Required Qty: 1.00

Comments:

IPP A□05.10.20□New Issue□

IPP B□06.02.10□ECN773 dwg rev.D

 $EC\Box$ 

IPP C 07.03.20 rev F dwg EC

KJ/EC□

IPP D 07.03.28 re-format

EC

IPP E 07.10.31 ecn 1053P

EC

IPP Rev:F ECN 1056 07-11-13 DD

verified by: EC

IPP Rev:G 08-09-08 new process (ecn 08-510) DD verified by:EC

IPP Rev:H 08-09-10 revH as per dwg DD verified by:EC

IPP Rev: I 08-11-13 Removed steps per w/o, QC KJ verified by: ec IPP Rev:J add in seq 140 expire date &b# sikaflex DD 10.02.17 verified by:EC

	cv.s add in scq 14	o expire date &on	Sikaric		.17 verified by.	.EC							
Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total . Qty	Qty Issued	Date Issued	Status
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				<u>Location</u> HALL	37065 50251	<u>Loc (</u>	Oty 104 22 82	Loc Code		M	1.	1-4	26
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D3681-1		Manufactured	No			160	Each	9.0000	5	5	<i>A</i>	Renf	05/16
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W/O:			WORK ORDER	CHANGES				
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# **Picklist Print**

\*Tuesday, April 19, 2011 4:03:11 PM

Page 2

Work Order ID: 68680

Parent Item:

D3391-023

Parent Item Name: Mid Tube Assembly



Start Date: 4/19/2011

Required Date: 5/13/2011

Start Qty: 1.00

Required Qty: 1.00

D3591-1

Bushing

Manufactured

210

Each 59.0000

11/05/20

ALS4-1032-130

Purchased

No

Loc Oty 59 22 37 230

Each

Loc Code

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11/05/20

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Location ST281

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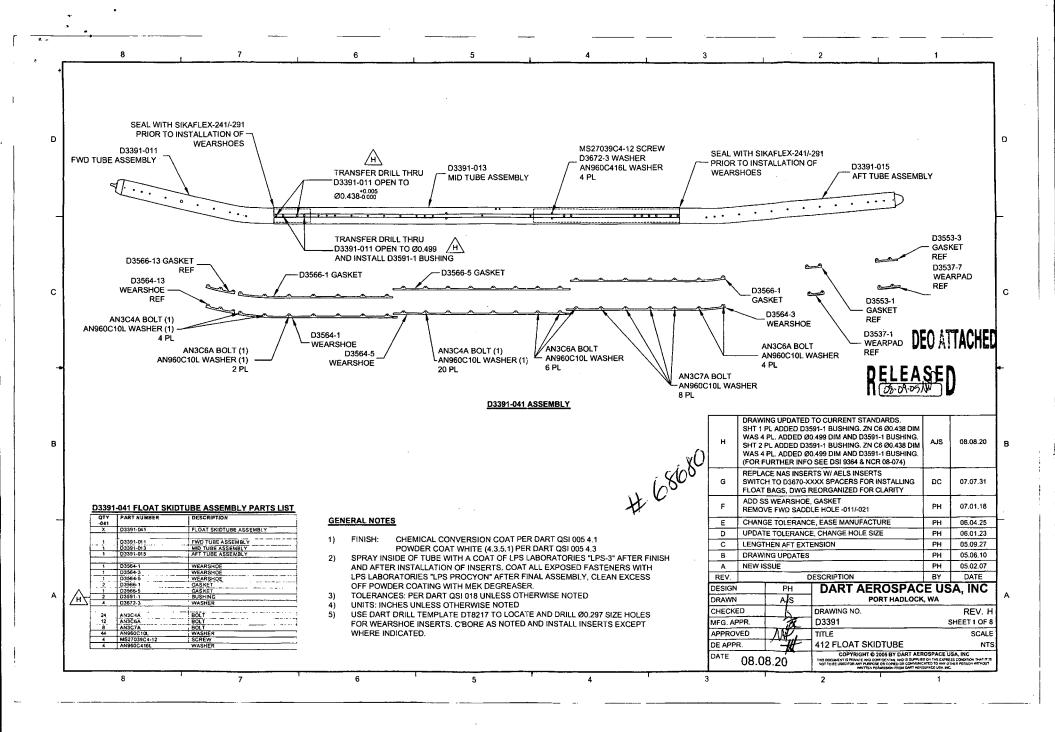
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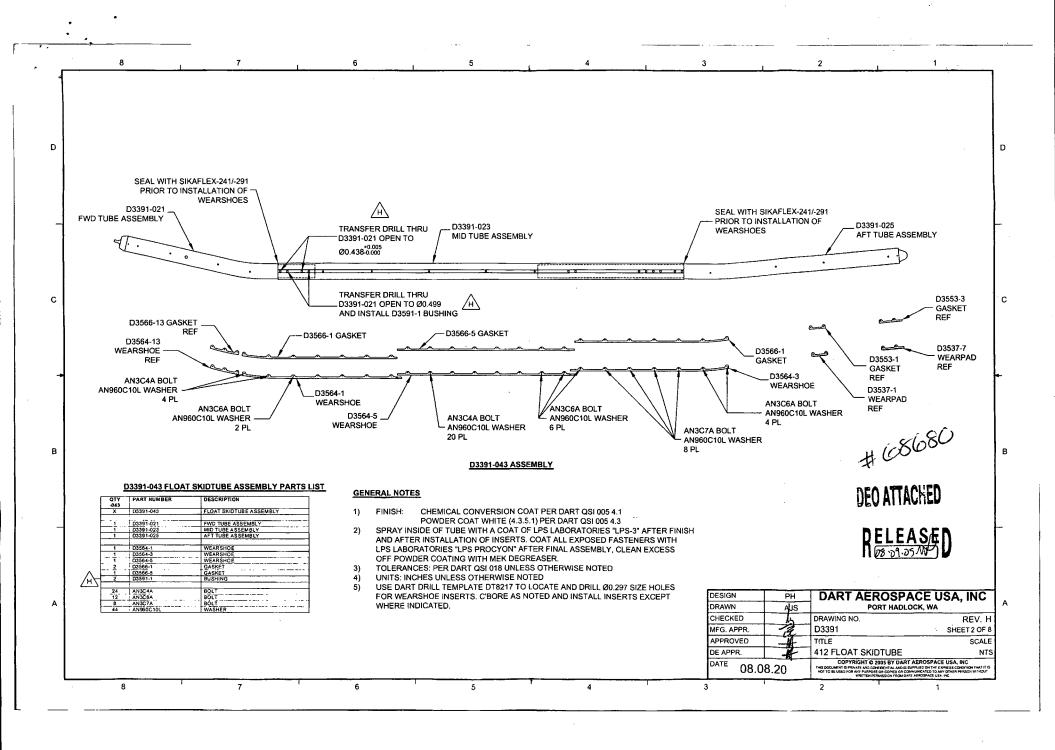
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DATE	STEP	Description of NC				tion B		Verific	cation	Approval	Approval
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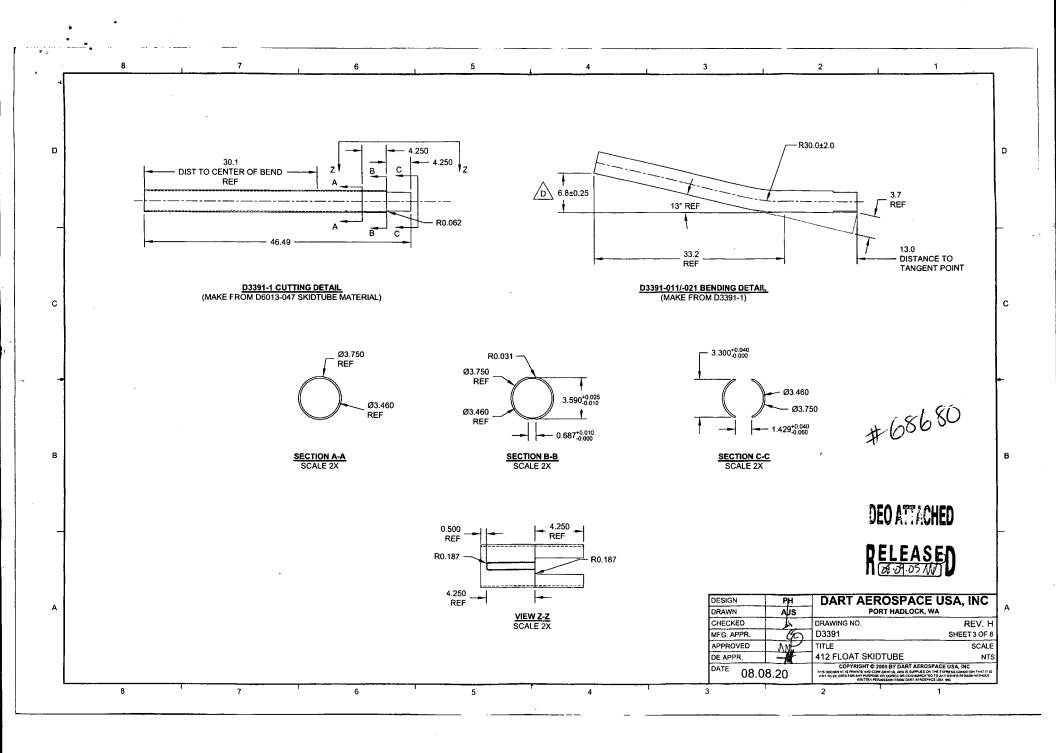


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W/O:				W	ORK ORDER CHANG	ES					
DATE	STEP	PRO	OCEDURE	RE CHANGE			Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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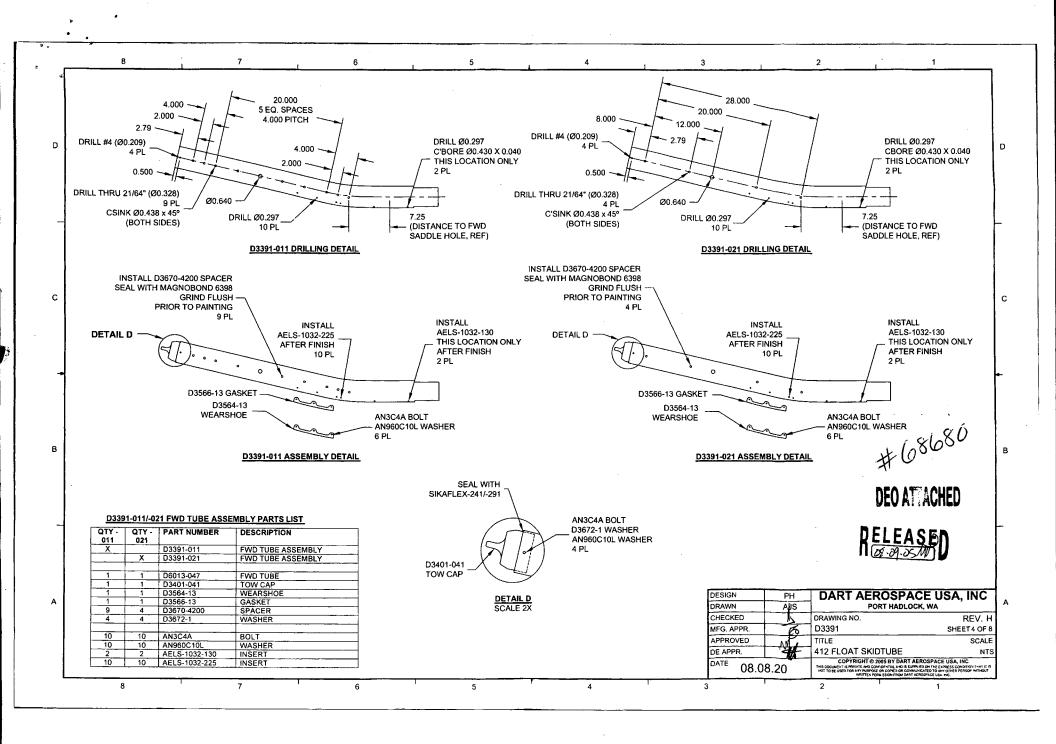


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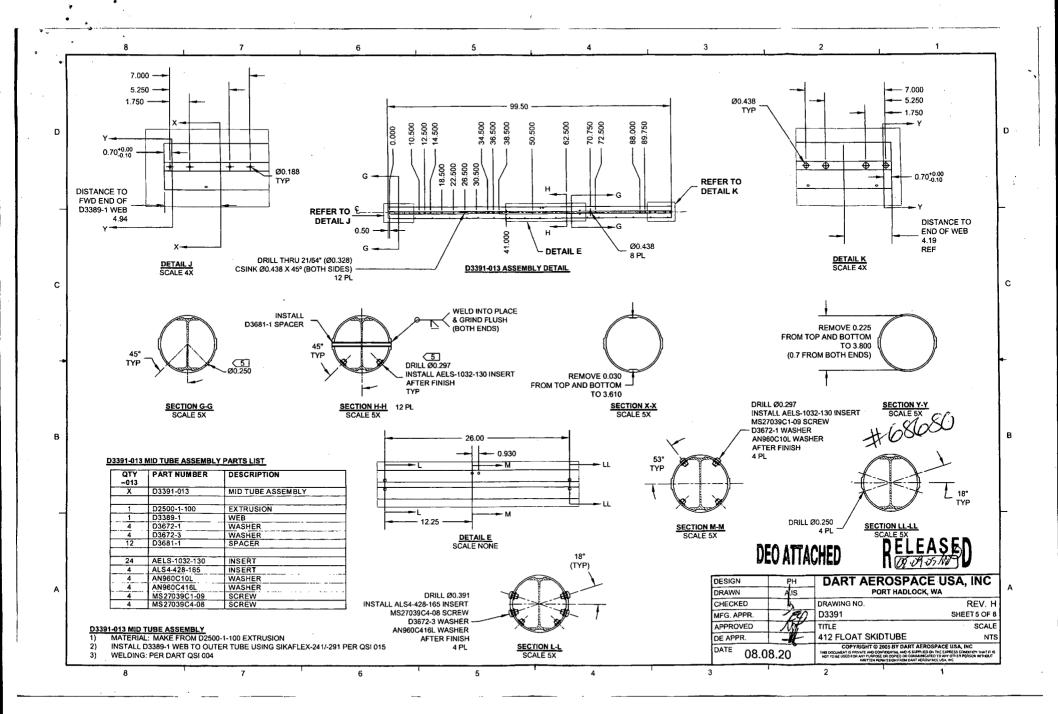
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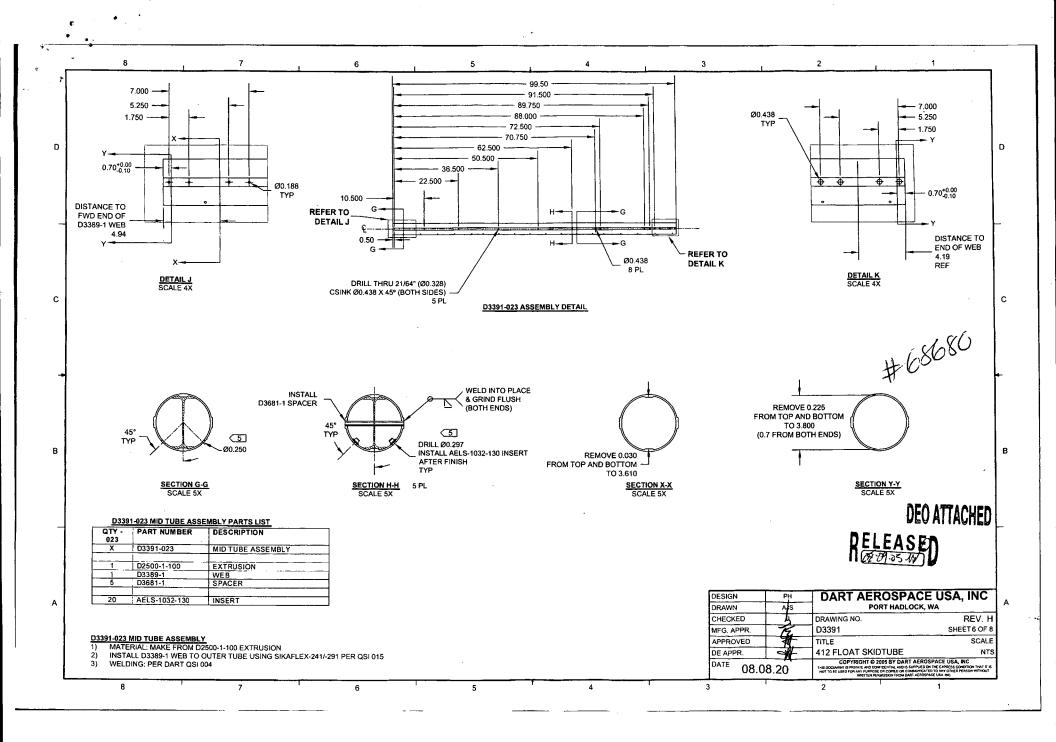
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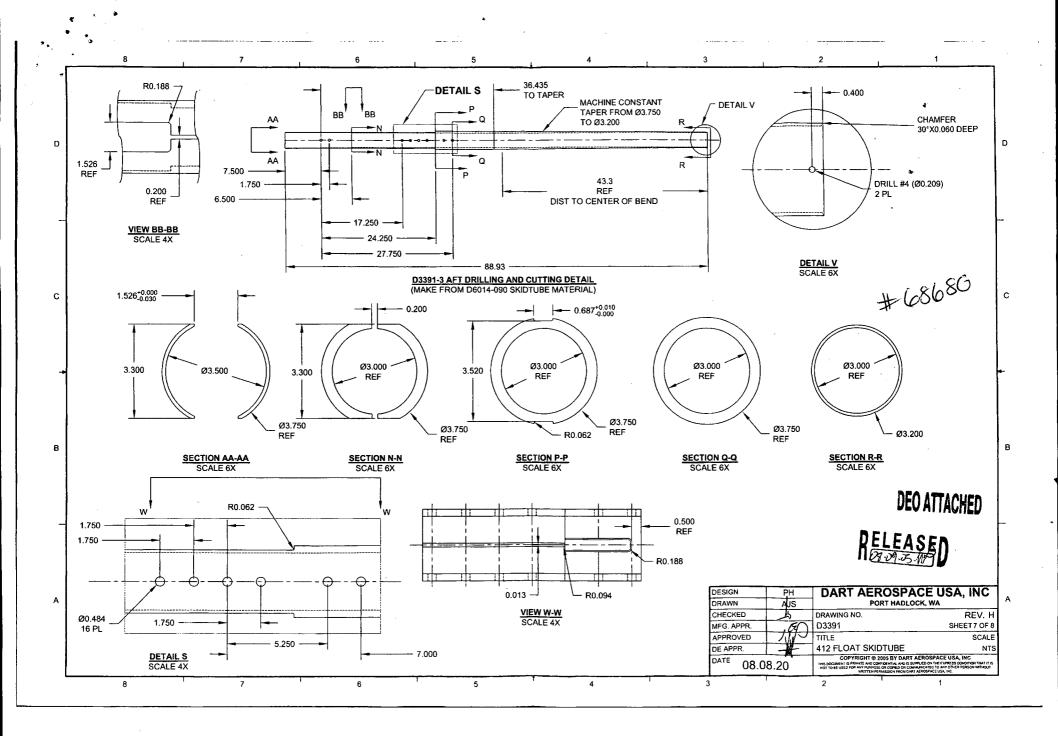
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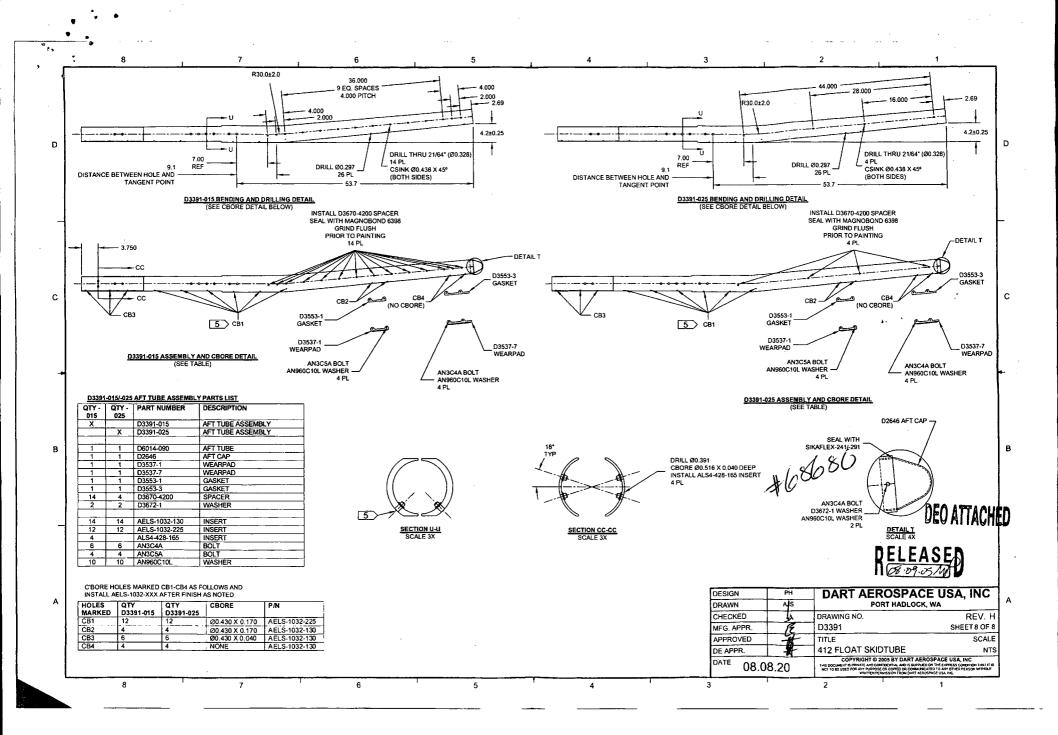
### **Dart Aerospace Ltd** W/O: **WORK ORDER CHANGES** Approval **Approval** DATE STEP PROCEDURE CHANGE Ву Qty Date Chief Eng / QC Inspector Prod Mgr Part No: \_\_\_\_\_\_ PAR #: \_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_ Date: \_\_\_\_ Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_ WORK ORDER NON-CONFORMANCE (NCR) NCR: **Corrective Action** Section B **Description of NC** Verification **Approval** Approval DATE **STEP** Sign & **Action Description** Initial Section A Section C Chief Eng QC Inspector Chief Eng Date Chief Eng



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DRAWING	NO. TITLE		REV. H DAF	RT AEROSPACE USA, IN	C D.E.O. NO.	SHEET NO.	SCALE
D3391	412 FLOA	T SKIDTUBE	, 1	ENGINEERING ORDER	D3391-H-1	SHEET 1 OF, 1	NTS
DRAWN	(P	CHECKED	L N	AFG. APPR.	APPROVED MA	DE APPR.	
DATE	09.09.23	DATE %.	04.24	DATE 09/09/25	DATE 09/09/30	DATE 09/09/30	

### **PURPOSE:**

LPS-3 IS NO LONGER USED DURING ASSEMBLY OF D3391-041/-043 SKIDTUBES.

### **CHANGE:**

AMEND NOTE 2 OF D3391-041/-043 SKIDTUBE ASSEMBLIES (ZN A6-1, A6-2) AS FOLLOWS:

2) SPRAY INSIDE OF TUBE WITH A COAT OF LPS LABORATORIES "LPS-3" AFTER FINISH AND AFTER INSTALLATION OF INSERTS. COAT ALL EXPOSED FASTENERS WITH LPS LABORATORIES "LPS PROCYON" AFTER FINAL ASSEMBLY, CLEAN EXCESS OFF POWDER COATING WITH MEK DEGREASER.

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Resolution: \_\_\_\_\_ Disposition: \_\_\_\_ QA: N/C Closed: \_\_\_\_ Date: \_\_\_

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# AWS D17.1.2001 QUALIFICATION TEST RECORD

Name: Barcling El	11:2 H							
	-110//							
Job number: 62677	003							
Part number: <u>\( \) 339/ - 02 3</u>								
Description: 339/ Welding Process: Tig[X] Mig[]								
Base materiel:								
Current: AC[\(\frac{1}{2}\)] DC[ ]								
Current. Act of Det								
TEST P	EQUIREMENTS AND RESULTS							
<u> 1ESI N</u>	EQUINENTS AND RESCRIS							
	<i>f</i>							
Visual:	pass[/] $fail[]$							
Penetration:	pass[/] fail[ ]							
UNACCEPTABLE								
	pass[1] fail[]							
Cracks:								
Undercut:	pass[X] fail[] pass[X] fail[]							
Pin holes:								
Overlap (cold lap)	* */*							
Porosity (surface):	4 99							
Coloration:	pass[Y] fail[]							
[7]								
1 / / / / / / / / / / / / / / / / / / /	Date of Test Coupon 1/04-28							
Qualifier (1.7.1.06.17.)	Date of rest Coupon							
Walder fre Nove Will Will	Date of Test Coupon 1/-04-26							
Welder Northy Stilling	Date of tool Component							
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The above named individual is qualified in accordance with AWS D17.1.2001 to weld